FortiGate Rugged Firewalls

FGR-60F, FGR-60F-3G4G, FGR-70F, and FGR-70F-3G4G

Highlights

Ruggedized Appliance with fanless design ensures reliable operations in harsh conditions

Security-Driven Networking with FortiOS delivers converged networking and security

Enterprise Security with consolidated AI-powered FortiGuard Services

Built-in SD-WAN supports reliable connectivity with lower costs and better user experience

Simplified Management enables faster deployment, comprehensive monitoring, security automation, and easier management

Security Solutions for Mission Critical Industrial Environments

FortiGate Rugged Series next-generation firewalls (NGFW) are best for building security-driven networks without impacting network performance. These next-gen firewalls are built to withstand harsh environmental conditions commonly found in industrial networks and operational technology (OT).

Unlike traditional security solutions made for office and enterprise networks, the FortiGate Rugged Series is industrially rugged and offer all-in-one security appliances with advanced threat protection capabilities for securing critical industrial networks against cyber threats.

Model	IPS	NGFW	Threat Protection	Interfaces
FGR-60F FGR-60F-3G4G	950 Mbps	550 Mbps	500 Mbps	Multiple GE RJ45, 2 SFP slots, 1 bypass pair | Variant with 3G4G Modem and GPS
FGR-70F FGR-70F-3G4G	975 Mbps	950 Mbps	580 Mbps	Multiple GE RJ45, 2 SFP slots, 1 bypass pair | Variant with 3G4G Modem and GPS | Digital I/O Module

Available in

Rugged Appliance

FortiOS Everywhere

FortiOS, Fortinet's Advanced Operating System

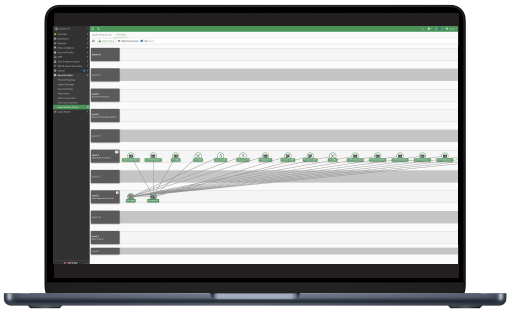
FortiOS enables the convergence of high performing networking and security across the Fortinet Security Fabric. Because it can be deployed anywhere, it delivers consistent and context-aware security posture across network, endpoint, and multi-cloud environments.

FortiOS powers all FortiGate deployments whether a physical or virtual device, as a container, or as a cloud service. This universal deployment model enables the consolidation of many technologies and use cases into organically built best-of-breed capabilities, unified operating system, and ultra-scalability. The solution allows organizations to protect all edges, simplify operations, and run their business without compromising performance or protection.

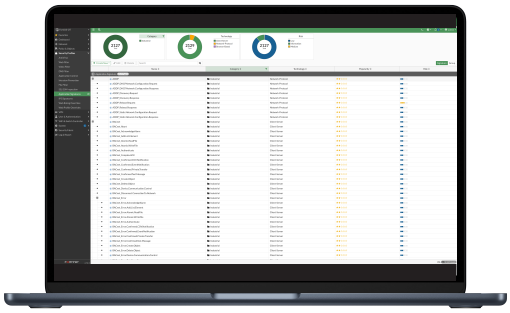
FortiOS dramatically expands the Fortinet Security Fabric's ability to deliver advanced AI/ML-powered services, inline advanced sandbox detection, integrated ZTNA enforcement, and more. It provides protection across hybrid deployment models for hardware, software, and Software-as-a-Service with SASE.

FortiOS expands visibility and control, ensures the consistent deployment and enforcement of a simplified, single policy and management framework. Its security policies enable centralized management across large-scale networks with the following key attributes:

- Interactive drill-down and topology viewers that display real-time status
- On-click remediation that provides accurate and quick protection against threats and abuses
- Unique threat score system correlates weighted threats with users to prioritize investigations



OT focused dashboard for assets and analytics



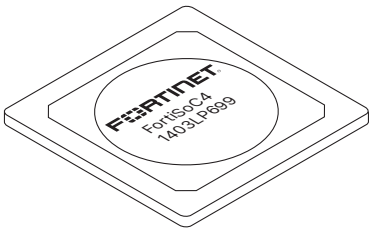
Visibility and control for OT applications and protocols

Secure Any Edge at Any Scale

Powered by Security Processing Unit (SPU)

Traditional firewalls cannot protect against today's content- and connection-based threats because they rely on off-the-shelf hardware and general-purpose CPUs, causing a dangerous performance gap. Fortinet's custom SPU processors deliver the power you need—up to 520Gbps—to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

ASIC Advantage



Secure SD-WAN ASIC SOC4

- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Delivers industry's fastest application identification and steering for efficient business operations
- Accelerates IPsec VPN performance for best user experience on direct internet access
- Enables best of breed NGFW Security and Deep SSL Inspection with high performance
- Extends security to access layer to enable SD-Branch transformation with accelerated and integrated switch and access point connectivity

Trusted Platform Module (TPM)

The FortiGate Rugged Series features a dedicated module that hardens physical networking appliances by generating, storing, and authenticating cryptographic keys. Hardware-based security mechanisms protect against malicious software and phishing attacks.

FortiCare Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare Services help thousands of organizations get the most from our Fortinet Security Fabric solution. Our lifecycle portfolio offers Design, Deploy, Operate, Optimize, and Evolve services. Operate services offer device-level FortiCare Elite service with enhanced SLAs to meet our customer's operational and availability needs. In addition, our customized account-level services provide rapid incident resolution and offer proactive care to maximize the security and performance of Fortinet deployments.

Use Cases

Industrial Security

- Implement industrial-grade security across the industrial networks with industry certified next-generation firewall appliances
- Secure industrial networks with deep packet inspection (DPI) for 50+ OT applications and protocols supporting up to payload level visibility and control
- Apply virtual patching or vulnerability shielding with OT centric IPS (intrusion prevention system) and minimize risks against security threats that have potential to exploit known or unknown vulnerabilities

Network Segmentation and Micro-Segmentation

- Network segmentation implements the concept of security zones and conduits and prevent unauthorized access to critical OT assets, the firewall acts as a conduit between different zones and offers secure pathway for communication
- Network segmentation limits the impact of any security incidents that occur within a specific zone and supports North and South network traffic monitoring and threat protection
- Network micro-segmentation further segments the security zones based on different security requirements and supports East and West network traffic monitoring and deep packet inspection preventing lateral movement attacks

Next Generation Firewall (NGFW)

- FortiGuard Labs' suite of AI-powered Security Services—natively integrated with your FortiGate Rugged NGFW—secures web, content, and devices and protects networks from ransomware and sophisticated cyberattacks
- Real-time SSL inspection (including TLS 1.3) provides full visibility into users, devices, and applications across the attack surface
- Fortinet's patented SPU (Security Processing Unit) technology provides industry-leading high-performance protection

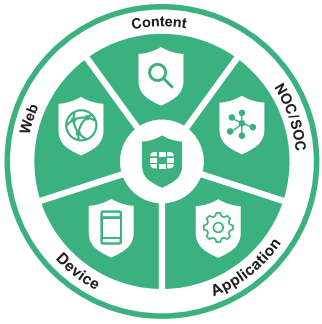
Use Cases

Secure SD-WAN

- FortiGate WAN Edge powered by one OS and unified security and management framework and systems transforms and secures WANs
- Delivers superior quality of experience and effective security posture for work-from-any where models, SD-Branch, and cloud-first WAN use cases
- Achieve operational efficiencies at any scale through automation, deep analytics, and self-healing

Universal ZTNA

- Control access to applications no matter where the user is and no matter where the application is hosted for universal application of access policies
- Provide extensive authentications, checks, and enforce policy prior to granting application access - every time
- Agent-based access with FortiClient or agentless access via proxy portal for guest or BYOD



FortiGuard Services

FortiGuard AI-Powered Security

FortiGuard's rich suite of security services counter threats in real time using AI-powered, coordinated protection designed by FortiGuard Labs security threat researchers, engineers, and forensic specialists.

Web Security

Advanced cloud-delivered URL, DNS (Domain Name System), and Video Filtering providing complete protection for phishing and other web born attacks while meeting compliance.

Additionally, its dynamic inline CASB (Cloud Access Security Broker) service is focused on securing business SaaS data, while inline ZTNA traffic inspection and ZTNA posture check provide per-sessions access control to applications. It also integrates with the FortiClient Fabric Agent to extend protection to remote and mobile users.

Content Security

Advanced content security technologies enable the detection and prevention of known and unknown threats and file-based attack tactics in real-time. With capabilities like CPRL (Compact Pattern Recognition Language), AV, inline Sandbox, and lateral movement protection make it a complete solution to address ransomware, malware, and credential-based attacks.

Device Security

Advanced security technologies are optimized to monitor and protect IT, IIoT, and OT (Operational Technology) devices against vulnerability and device-based attack tactics. Its validated near-real-time IPS intelligence detects, and blocks known and zero-day threats, provides deep visibility and control into ICS/OT/SCADA protocols, and provides automated discovery, segmentation, and pattern identification-based policies.

Advanced Tools for SOC/NOC

Advanced NOC and SOC management tools attached to your NGFW provide simplified and faster time-to-activation.

SOC-as-a-Service

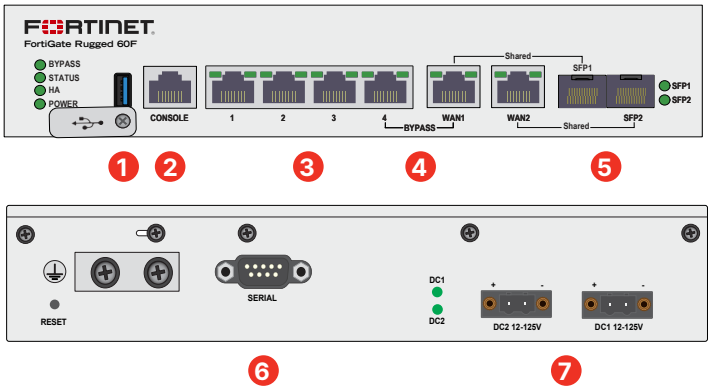
Includes tier-one hunting and automation, log location, 24×7 SOC analyst experts, managed firewall and endpoint functions, and alert triage.

Fabric Rating Security Best Practices

Includes supply chain virtual patching, up-to-date risk and vulnerability data to deliver quicker business decisions, and remediation for data breach situations.

Hardware

FortiGate Rugged 60F

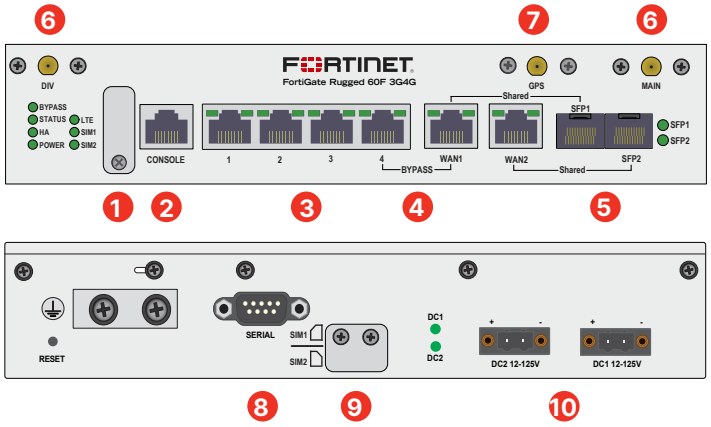


Interfaces

1. 1x USB Port
2. 1x RJ45 Console Port
3. 4x GE RJ45 Ports
4. 1x GE RJ45 Bypass Port Pair (PORT4 and WAN1, default setting)*
5. 2x GE RJ45/SFP Shared Media Ports
6. 1x DB9 Serial Port (RS-232)
7. 2x DC Power Inputs (Redundant Failover)

* NOTE: WAN1/WAN2 and SFP1/SFP2 are shared interfaces

FortiGate Rugged 60F-3G4G

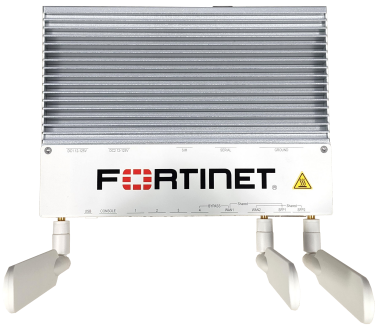


Interfaces

1. 1x USB Port
2. 1x RJ45 Console Port
3. 4x GE RJ45 Ports
4. 1x GE RJ45 Bypass Port Pair (PORT4 and WAN1, default setting)*
5. 2x GE RJ45/SFP Shared Media Ports
6. 2x SMA Antennae Connections
7. 1x SMA Antenna Connection for GPS
8. 1x DB9 Serial Port (RS-232)
9. 1x Integrated 3G/4G LTE Modem (Dual SIM - Active/Passive)
10. 2x DC Power Inputs (Redundant Failover)

* NOTE: WAN1/WAN2 and SFP1/SFP2 are shared interfaces

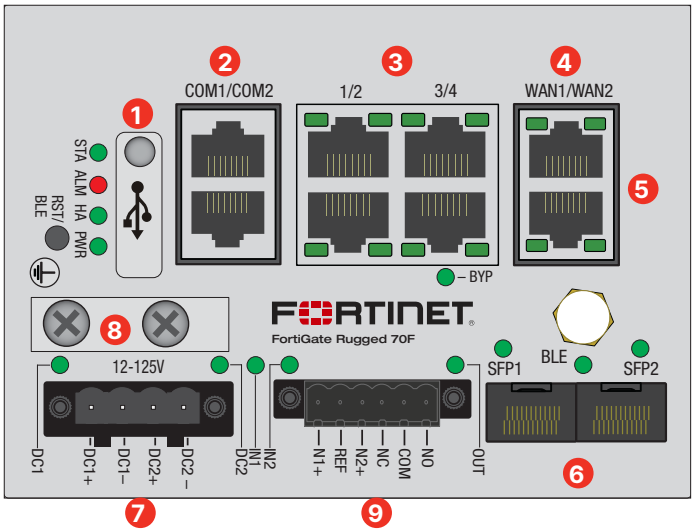
FortiGate Rugged 60F



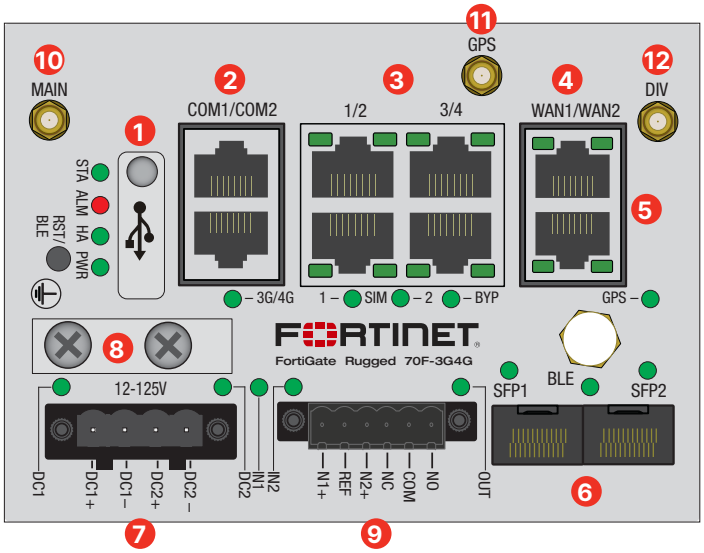
FortiGate Rugged 60F-3G4G

Hardware

FortiGate Rugged 70F



FortiGate Rugged 70F-3G4G



Interfaces: FGR-70F, FGR-70F-3G4G

1. 1x USB Port
2. 2x RJ45 Serial Ports, COM1: Console, COM2: Data
3. 4x GE RJ45 LAN Ports
4. 1x GE RJ45 Bypass Port Pair (between PORT3 and PORT4)
5. 2x GE RJ45 WAN Ports
6. 2x GE SFP Slots
7. 2x DC Power Inputs (Redundant)
8. 1x Grounding Point
9. 1x Digital I/O Module for Alarms

Interfaces: FGR-70F-3G4G

10. 1x SMA Antenna Connection for Integrated 3G/4G LTE Modem (Dual SIM - Active/Passive)
11. 1x SMA Antenna Connection for GPS
12. 1x SMA Antenna Connections for Cellular Wireless

FortiGate Rugged 70F

FortiGate Rugged 70F-3G4G

Specifications

	FGR-60F	FGR-60F-3G4G	FGR-70F	FGR-70F-3G4G
Interfaces and Modules				
GE RJ45 Interfaces	4	4	6	6
Bypass GE RJ45 Port Pair*	1*	1*	Default bypass port pair configuration is PORT3 and PORT4	Default bypass port pair configuration is PORT3 and PORT4
Dedicated GE SFP Slots	No	No	2	2
GE RJ45/SFP Shared Media Pairs	2	2	No	No
Serial Interface	1 DB9	1 DB9	1 RJ45	1 RJ45
USB (Client / Server)	1	1	1	1
RJ45 Console Port	1	1	1	1
Cellular Modem	No	3G / 4G LTE, GPS	No	3G / 4G LTE, GPS
Bluetooth Low Energy (BLE)	No	No	Yes	Yes
Transceivers Included	No	No	No	No
Processor	FortiSoC4	FortiSoC4	FortiSoC4	FortiSoC4
Trusted Platform Module (TPM)	Yes	Yes	Yes	Yes
Digital I/O Module (DIO)	No	No	Yes	Yes
System Performance and Capacity				
IPv4 Firewall Throughput (1518 / 512 / 64 byte UDP packets)**	6/6/5.95 Gbps	6/6/5.95 Gbps	8/8/8 Gbps	8/8/8 Gbps
Firewall Latency (64 byte, UDP)	3.10 µs	3.10 µs	6.71 µs	6.71 µs
Firewall Throughput (Packets Per Second)	8.9 Mpps	8.9 Mpps	12 Mpps	12 Mpps
Concurrent Sessions (TCP)	600 000	600 000	1 M	1 M
New Sessions/Second (TCP)	19 000	19 000	35 000	35 000
Firewall Policies	5000	5000	5000	5000
IPsec VPN Throughput (512 byte) [1]	3.5 Gbps	3.5 Gbps	6.5 Gbps	6.5 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	200	200	200	200
Client-to-Gateway IPsec VPN Tunnels	500	500	500	500
SSL-VPN Throughput	400 Mbps	400 Mbps	450 Mbps	450 Mbps
Concurrent SSL-VPN Users (Recommended Maximum)	100	100	100	100
SSL Inspection Throughput (IPS, avg. HTTPS) [3]	460 Mbps	460 Mbps	500 Mbps	500 Mbps
SSL Inspection CPS (IPS, avg. HTTPS) [3]	300	300	380	380
SSL Inspection Concurrent Session (IPS, avg. HTTPS) [3]	70 000	70 000	90 000	90 000
Application Control Throughput (HTTP 64K)	1.3 Gbps	1.3 Gbps	1.1 Gbps	1.1 Gbps
Virtual Domains (Default / Maximum)	10 / 10	10 / 10	10 / 10	10 / 10
Maximum Number of FortiAPs (Total / Tunnel)	30 / 10	30 / 10	64 / 32	64 / 32
Maximum Number of FortiTokens	500	500	500	500
Maximum Number of FortiSwitches	16	16	16	16
High Availability Configurations	Active-Active, Active-Passive, Clustering	Active-Active, Active-Passive, Clustering	Active-Active, Active-Passive, Clustering	Active-Active, Active-Passive, Clustering

*Default bypass port pair configuration is PORT4 and WAN1

**Measured using 1518 byte UDP packets

Note: All performance values are "up to" and vary depending on system configuration.

[1] IPsec VPN performance test uses AES256-SHA256.

[2] IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

[3] SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

[4] NGFW performance is measured with Firewall, IPS and Application Control enabled.

[5] Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

[6] AC adapter not supported.

[7] AC adapter not supported. Requires fabricated DC cables (refer to QuickStart Guide).

[8] DC cables are not included.

Specifications

	FGR-60F	FGR-60F-3G4G	FGR-70F	FGR-70F-3G4G
System Performance — Enterprise Traffic Mix				
IPS Throughput [2]	950 Mbps	950 Mbps	975 Mbps	975 Mbps
NGFW Throughput [2, 4]	550 Mbps	550 Mbps	950 Mbps	950 Mbps
Threat Protection Throughput [2, 5]	500 Mbps	500 Mbps	580 Mbps	580 Mbps
Dimensions and Power				
Height x Width x Length (inches)	1.68 × 8.50 × 6.70	1.68 × 8.50 × 6.70	4.8 × 3.2 × 4.4	4.8 × 3.2 × 4.4
Height x Width x Length (mm)	42.7 × 216 × 170	42.7 × 216 × 170	122 × 80.5 × 111	122 × 80.5 × 111
Weight	3.85 lbs (1.75 kg)	4.06 lbs (1.84 kg)	2.87 lbs (1.3 kg)	2.87 lbs (1.3 kg)
Form Factor	Desktop/ DIN-rail/ Wall Mount	Desktop/ DIN-rail/ Wall Mount	DIN-rail	DIN-rail
Antennae (Height x Width)		205 mm x 25 mm		205 mm x 25 mm
IP Rating	IP20	IP20	IP40	IP40
Power Supply[6, 7, 8]	Redundant dual inputs, 2 pins per terminal block, supports negative (+12V to +125V DC) and positive ground (-12V to -125V DC) power sources, DC cables are not included.	Redundant dual inputs, 2 pins per terminal block, supports negative (+12V to +125V DC) and positive ground (-12V to -125V DC) power sources, DC cables are not included.	Redundant dual inputs, 2 pins per terminal block, supports negative (+12V to +125V DC) and positive ground (-12V to -125V DC) power sources, DC cables are not included.	Redundant dual inputs, 2 pins per terminal block, supports negative (+12V to +125V DC) and positive ground (-12V to -125V DC) power sources, DC cables are not included.
Power Consumption (Average / Maximum)	15 W / 21 W	16 W / 24 W	16 W /18 W	18.3 W /19.9 W
Maximum Current	12V DC / 2A	12V DC / 2A	12V DC / 1.5A	12V DC / 1.67A
Heat Dissipation	72 BTU/h	82 BTU/h	62 BTU/h	68 BTU/h
Operating Environment				
Operating Temperature	-40°–167°F (-40°–75°C)	-40°–167°F (-40°–75°C)	-40°–167°F (-40°–75°C)	-40°–167°F (-40°–75°C)
Storage Temperature	-40°–167°F (-40°–75°C)	-40°–167°F (-40°–75°C)	-40°–167°F (-40°–75°C)	-40°–167°F (-40°–75°C)
Humidity	5%–95% non-condensing	5%–95% non-condensing	5%–95% non-condensing	5%–95% non-condensing
Operating Altitude	Up to 7400 ft (2250 m)	Up to 7400 ft (2250 m)	Up to 10 000 ft (3048 m)	Up to 10 000 ft (3048 m)

Note: All performance values are “up to” and vary depending on system configuration.

[1] IPsec VPN performance test uses AES256-SHA256.

[2] IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

[3] SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

[4] NGFW performance is measured with Firewall, IPS and Application Control enabled.

[5] Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

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Specifications

	FGR-60F	FGR-60F-3G4G	FGR-70F	FGR-70F-3G4G
Industry Compliance and Certifications				
Regulatory Compliance	FCC Part 15 Class A, RCM, VCCI Class A, CE, UL/cUL, CB	FCC Part 15 Class A, RCM, VCCI Class A, CE, UL/cUL, CB	FCC Part 15 Class A, RCM, VCCI Class A, CE, UL/cUL, CB	FCC Part 15 Class A, RCM, VCCI Class A, CE, UL/cUL, CB
Electric Power Industry	IEC 61850-3 and IEEE 1613 Certified	IEC 61850-3 and IEEE 1613 Certified	IEC 61850-3 and IEEE 1613 Certified	IEC 61850-3 and IEEE 1613 Certified
Rolling Stock Industry	EMC, Shock and Vibration Compliant EN 50121-1:2017 EMC EN 50121-4:2016 EMC IEC60068-2-27:2008 Shock IEC 60068-2-6:2007 Vibration	EMC, Shock and Vibration Compliant EN 50121-1:2017 EMC EN 50121-4:2016 EMC IEC60068-2-27:2008 Shock IEC 60068-2-6:2007 Vibration	EN 50155:2017 EMC, Shock, and Vibration Certified	EN 50155:2017 EMC, Shock, and Vibration Certified
EMC	EN 55032:2015, Class A EN 55035: 2017 EN IEC 61000-6-4:2019 IEC 61850-3:2013	EN 55032:2015, Class A EN 55035: 2017 EN IEC 61000-6-4:2019 IEC 61850-3:2013 EN 301 489-1 V2.2.3 Draft EN 301 489-52 V1.1.0 (2016-11)	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) ETSI EN 301 489-19 V2.1.1 (2019-04) ETSI EN 301 489-52 V1.2.1 (2021-11) ETSI EN 301 908-1 V15.1.1 (2021-09) EN 55032:2015, Class A EN 55035: 2017 IEC 61850-3:2013	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) ETSI EN 301 489-19 V2.1.1 (2019-04) ETSI EN 301 489-52 V1.2.1 (2021-11) ETSI EN 301 908-1 V15.1.1 (2021-09) EN 55032:2015, Class A EN 55035: 2017 IEC 61850-3:2013
RF		Draft ETSI EN 301 489-19 V2.2.0 (2020-09) ETSI EN 301 489-52 V1.2.1 (2021-11) EN 301 908-1 V13.1.1 (2019-11) EN 301 908-2 V13.1.1 EN 301 908-13 V13.1.1 EN 303 413 V1.2.1 (2021-04)	ETSI EN 300 328 V2.2.2 (2019-07) EN IEC 62311:2020 EN 50665:2017 FCC Part 15 Subpart C 15.247 FCC 47 CFR Part 2.1091 ISED RSS-247 Issue 2 RSS-102 Issue 5	ETSI EN 300 328 V2.2.2 (2019-07) EN 301 908-1 V13.1.1 (2019-11) EN 301 908-2 V13.1.1 EN 301 908-13 V13.1.1 EN 303 413 V1.2.1 (2021-04) EN IEC 62311:2020 EN 50665:2017 FCC Part 15 Subpart C 15.247 FCC 47 CFR Part 2.1091 ISED RSS-247 Issue 2 RSS-102 Issue 5
Health and Safety	IEC 62368-1:2014, 2nd Ed. EN 62368-1:2014 IEC 62368-1:2018, 3rd Ed. EN IEC 62368-1:2020	IEC 62368-1:2014, 2nd Ed. EN 62368-1:2014 IEC 62368-1:2018, 3rd Ed. EN IEC 62368-1:2020	IEC 62368-1:2014, 2nd Ed. EN 62368-1:2014 IEC 62368-1:2018, 3rd Ed. EN IEC 62368-1:2020	IEC 62368-1:2014, 2nd Ed. EN 62368-1:2014 IEC 62368-1:2018, 3rd Ed. EN IEC 62368-1:2020
RoHS	EN IEC 6300:2018 EN 50581:2012	EN IEC 6300:2018 EN 50581:2012	EN IEC 6300:2018 EN 50581:2012	EN IEC 6300:2018 EN 50581:2012

	FGR-60F-3G4G	FGR-70F-3G4G
Cellular Wireless Regional Compatibility		
Maximum Tx Power	20 dBm	20 dBm
Regions	All Regions	All Regions
Modem Model	Sierra Wireless EM7565 (2 SIM Slots, Active/Passive)	Sierra Wireless EM7565 (2 SIM Slots, Active/Passive)
LTE	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42, B43, B46, B48, B66	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42, B43, B46, B48, B66
UMTS/HSPA+	B1, B2, B3, B4, B5, B6, B8, B9, B29	B1, B2, B3, B4, B5, B6, B8, B9, B29
WCDMA	No	No
CDMA 1xRTT/EV-DO Rev A	No	No
GSM/GPRS/EDGE	No	No
Module Certifications	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB
Diversity	Yes	Yes
MIMO	Yes	Yes
GNSS Bias	Yes	Yes

Supported Industrial Protocols

FortiGuard Industrial Security Service

- Allen-Bradley DF1
- Allen-Bradley PCCC
- BACnet
- CC-Link
- CN/IP CEA-852
- CoAP
- Common Industrial Protocol (CIP)
- DICOM
- Digi ADDP
- Digi RealPort (Net C/X)
- Direct Message Profile
- DNP3
- ECHONET Lite
- ECOM100
- ELCOM 90
- Emerson DeltaV
- Ether-S-Bus
- Ether-S-I/O
- EtherCAT
- Ethernet POWERLINK
- EtherNet/IP
- FactorySuite NMXSVC
- FL-net
- GE EGD
- GE SRTP (GE Fanuc)
- HART-IP
- HL7
- IEC 60870-5-104 (IEC 104)⇶
- IEC 60870-6/TASE.2 (ICCP)
- IEC 61850 MMS
- IEC 62056 DLMS/COSEM
- IEC TR 61850-90-5 R-GOOSE
- IEC TR 61850-90-5 R-SV
- IEEE 1278.2 DIS
- IEEE C37.118 Synchrophasor
- ISO 9506 MMS
- KNXnet/IP (EIBnet/IP)
- LonTalk IEC14908-1 CNP
- Mitsubishi MELSEC
- Modbus TCP⇶
- Moxa Modbus RTU⇶
- Moxa UDP Device Discovery
- MQTT
- MTConnect
- Niagara Fox
- oBIX
- OCPP
- Omron FINS
- OPC AE
- OPC DA
- OPC HDA
- OPC UA
- OpenADR
- OSIsoft PI
- Profinet CBA
- Profinet IO
- RealPort DNP3⇶
- Remote Operations Controller (ROC)
- Rockwell FactoryTalk
- RTPS
- SafetyNET p
- Schneider UMAS
- Siemens LOGO
- Siemens S7
- Siemens S7 1200
- Siemens S7 Plus
- Siemens SIMATIC CAMP
- STANAG 4406 Military Messaging
- STANAG 5066
- Triconex TriStation
- Veeder-Root ATG Access
- Vnet/IP

⇶Additional parameters supported for the signatures in the GUI (requires FortiOS v6.4 or above).

Visit https://www.fortiguard.com/services/is to view the latest list of industrial applications and protocols included in the FortiGuard Industrial Security Service.

Ordering Information

Product	SKU	Description
FortiGate Rugged 60F	FGR-60F	Ruggedized, indoor, IP20, 4x GE RJ45 ports, 2x shared media ports (supports, 2x GE RJ45 ports or 2x SFP slots), 1x GE RJ45 bypass port pair (between PORT4 and WAN1), 1x RJ45 serial port (console), 1x DB9 serial port (data), 1x USB port, dual power inputs.
FortiGate Rugged 60F-3G4G	FGR-60F-3G4G	Ruggedized, indoor, IP20, 4x GE RJ45 ports, 2x shared media ports (supports, 2x GE RJ45 ports or 2x SFP slots), 1x GE RJ45 bypass port pair (between PORT4 and WAN1), 1x RJ45 serial port (console), 1x DB9 serial port (data), 1x USB port, embedded 3G/4G LTE wireless WAN module (includes, 2 SIM slots - Active/Passive, 2x external SMA WWAN antennae), Passive GPS (includes, 1x external SMA GPS antenna), dual power inputs.
FortiGate Rugged 70F	FGR-70F	Ruggedized, indoor, IP40, 4x GE RJ45 LAN ports, 1x GE RJ45 bypass port pair (between PORT3 and PORT4), 2x GE RJ45 WAN ports, 2x SFP slots, 1x RJ45 serial port (data), 1x RJ45 serial port (console), 1x USB port, 1x MicroSD card slot, dual power inputs.
FortiGate Rugged 70F-3G4G	FGR-70F-3G4G	Ruggedized, indoor, IP40, 4x GE RJ45 LAN ports, 1x GE RJ45 bypass port pair (between PORT3 and PORT4), 2x GE RJ45 WAN ports, 2x SFP slots, 1x RJ45 serial port (data), 1x RJ45 serial port (console), 1x USB port, 1x MicroSD card slot, embedded 3G/4G LTE wireless WAN module (includes, 2x SIM slots - Active/Passive, 2x external SMA WWAN antennae), Passive GPS (includes, 1x external SMA GPS antenna), dual power inputs.
Optional Accessories		
1 GE SFP LX transceivers, SMF, -40°–85°C operation	FN-TRAN-LX	1 GE SFP LX transceiver module, -40°C–85°C, over SMF, for all systems with SFP and SFP/SFP+ slots.
1 GE SFP SX transceivers, MMF, -40°–85°C operation	FR-TRAN-SX	1 GE SFP SX transceiver module, -40°C–85°C, over MMF, for all systems with SFP and SFP/SFP+ slots.
1 GE SFP transceivers, 90 km range, -40–85°C operation	FR-TRAN-ZX	1 GE SFP transceivers, -40°C–85°C operation, 90 km range for all systems with SFP slots.
100base-FX SFP transceiver module	FS-TRAN-FX	100 Mb multimode SFP transceiver module, -40° to 85°C, 2 km range for systems with SFP Slots and capable of 10/100 Mb mode selection

FORTIGUARD PROTECTION SUBSCRIPTIONS

Service Category	Service Offering	A-la-carte	Bundles			
			Enterprise Protection	SMB Protection	Unified Threat Protection	Advanced Threat Protection
Security Services	FortiGuard IPS Service	•	•	•	•	•
	FortiGuard Anti-Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•	•
	FortiGuard Web Security — URL and web content, Video and Secure DNS Filtering	•	•	•	•	
	FortiGuard Anti-Spam		•	•	•	
	FortiGuard IoT Detection Service	•	•			
	FortiGuard Industrial Security Service	•	•			
	FortiCloud AI-based Inline Sandbox Service [1]	•				
NOC Services	FortiGate Cloud (SMB Logging + Cloud Management)	•		•		
	FortiGuard Security Fabric Rating and Compliance Monitoring Service	•	•			
	FortiConverter Service	•	•			
	FortiGuard SD-WAN Underlay Bandwidth and Quality Monitoring Service	•				
SOC Services	FortiAnalyzer Cloud	•				
	FortiAnalyzer Cloud with SOCaaS	•				
Hardware and Software Support	FortiCare Essentials	•				
	FortiCare Premium	•	•	•	•	•
	FortiCare Elite	•				
Base Services	FortiGuard Application Control	included with FortiCare Subscription				
	FortiCloud ZTNA Inline CASB Service [1]					
	Internet Service (SaaS) DB Updates					
	GeoIP DB Updates					
	Device/OS Detection Signatures					
	Trusted Certificate DB Updates					
	DDNS (v4/v6) Service					

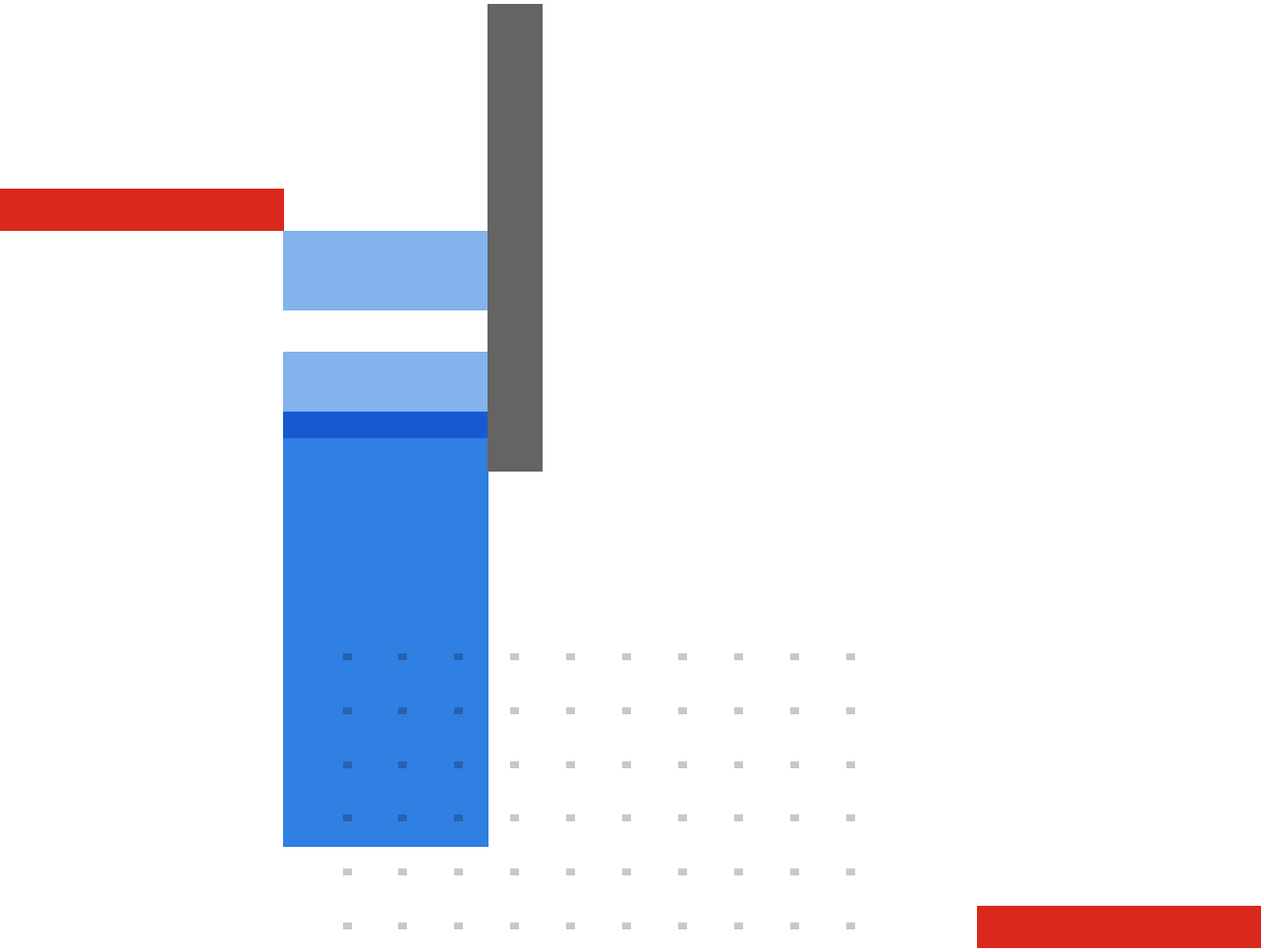
[1] Available when running FortiOS 7.2

FortiGuard Bundles

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

Fortinet Corporate Social Responsibility Policy

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the Fortinet EULA and report any suspected violations of the EULA via the procedures outlined in the Fortinet Whistleblower Policy.



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